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BY RADIO TODAY

Complete Programs of Radio Broadcasting Stations.

NAA-Naval Radio Station, Radio, Va NAA—Naval Radio Station, Radio, va. 8:45 to 9 a.m.—Live stock receipts; live stock markets.

10 a.m.—Weather forecast for New England, New York, Pennsylvania, New Jersey, Maryland, the District of Columbia, North and South Carolina, Georgia, Florida, Alabama, Missispip, Tennessee, Kentucky, West Virginia and Ohio on 2,950 meters.

10:30 a.m.—Meteorological report on 5,950 meters.

950 meters. 11:15 to 11:20 a.m.—Hog flash— Chicago and St. Louis.

11:20 to 11:40 a.m.—Fruit and vegetable shipments.

Noon—Time signal; weather report and ship orders on 2,650 meters.

1:40 to 2:25 p.m.—Fruit and vegetable markets.

2:25 to 2:55 p.m.—Crop reports and special market news.

3:45 to 4 p.m.—Closing live stock markets.
4 to 4:15 p.m.—Hay and feed mar

kets.

5 p.m.—Weather report.

5:30 to 6 p.m.—Dally marketgram.

10 p.m.—Time signal; weather report; ship orders; 2,650 meters.

10:30 p.m.—Naval press news on

2,650 meters. Except where noted, sending is CW 5,950 meters.

WYX-Post Office Department. 10 a.m.—Weather report for the District of Columbia, Pennsylvania. Dhio, Maryland, Virginia and West

Virginia. 10:30 a.m.—Marketgram (fruit and 10:30 a.m.—Marketgram (fruit and vegetables) on 1,100 meters.

12:30, 2:15 and 3:30 p.m.—C. W. marketgram telegrams on 1,980 meters.

5 p.m.—Wholesale dairy report on 1,160 meters by radiophone.

7:30 and 8 p.m.—Market report on 1,160 meters by radiophone.

9:50 p.m.—Weather report.

NOF-Naval Air Station, Anacostia,
D. C. (412 meters).

8:30 p.m.—U. S. Navy Saxophone
Band, Charles Benter, director; C.
Brendler, soprano saxophone; G.
Bruffey, alto saxophone; H. Kareff,
alto clarinet; W. Melvin, alto saxophone; E. Waulters, alto saxophone; H. Sommers, tenor saxophone; B.
Heller, tenor saxophone; J. Thompson. baritone saxophone; J. Verso, son, baritone saxophone: J. Verso, bass clarinet, and H. King, string

bass.
March, "El Capital," Sousa; soprand
March, "El Capital," Sousa; soprand March, "El Capital," Sousa; soprano saxophone solo, scene and air from "Luisa di Montfort," Bergson (First Musician Charles Brendler); "Sextette," from "Lucla," Donizetti; valse, "Moonlight on the Nile," King; idyl, "The Glow Worm," Lincke; idyl, "The Mill in the Forest," Ellenberg; intermission; fox trot, "Jasbo Jenkins Ball," Bruffey-Melvin; valse, "Three O'Clock in the Morning," Robeledo; fox trot, "Rosy Posy," Romberg; fox trot, "Wabash Blues," Meinken.

WMU—Doubleday-Hill Electric Com-pany (360 Meters). 4:30 to 5:30 p.m.—Base ball scores

4:30 to 5:30 p.m.—Base ball scores and the following musical program:
"A Mahina Malamalama", Ferrera trio: "Concert Mazurka," piano, Jonas: "Little Town in Old County Down," Carlo Sanders; "Autumn." piano, Chaminade; "Light Cavalry Overture," Franz von Suppe; "Wedding of the Winds Waltz," piano, Hall: "Little Gray Home in the West," tenor, Hardley Wilmott, Lohr; "Ballade," Brahms; "Bymell Betrus," Hersten Werner; "At the Lake of Geneva." piano, Bendell; "Barbiere Di Siviglia," bass, Virgilis Lazzare; "Sing Song," piano, Friend and Conrad; "U-a Like No-a Like," Ferrera trio; "Pretty Kitty Kelly," Nelson Pease; "Lorraine March," Gamme.

WEAS-The Hecht Company. Radio vaudeville, arranged by Ted

7:30 p.m.—Bill Barker's White Owl Orchestra, "Do It Again," "Highbrow p.m.—Miss Anne Suter, con-"Some Sunny Day," "Angel

7:45 p.m.-Bill Barker's White Owl Orchestra, dance selections.
7:50 p.m.—Miss Anne Suter, conrraito, "Finale Hoppers."
7:55 p.m.—Mrs. David H. Kincheloe. 7:50 p.m.—Miss Anne Suter, con-tralto, "Finale Hoppers."
7:55 p.m.—Mrs. David H. Kincheloe, wife of Representative Kincheloe of Kentucky, in novelty whistling, songs and recitations.

half-i 8:05 p.m.—Miss Ruth Ayler, accom-panied by Miss Edith M. Gallant, "Tell Her I Love Her So," "Believe Me, If All Those Endearing Young Charms."

8:15 p.m.—Mr. Julius Zancig, famous mental telepathist, will give a demonstration of mind reading by answering, over the radio, any questions sent in, in writing, or asked over the factor. sent in, in writing, or asked over the telephone. 8:30 p.m.—Closing announcements.

WPM-Thomas J. Williams, Inc. (360 Meters). 12:30 p.m.—News items; reports on stolen automobiles.

WVP—United States Signal Corps, Bedloes Island, N. Y. (1.450 Meters —Eastern Daylight-Saving Time— Deduct One Hour).

8:50 p.m.—Instruction in radio. 9 p.m.—Concert. WGI-Amrad, Medford Hillside, Mass.

(360 Meters - Eastern Daylight-Saving Time-Deduct One Hour). 2:55 p.m.—Music, current events. 3:30 p.m.—Music and talks as announced by radiophone.
7:30 p.m.—Base ball scores; late

3:30 p.m.—Music and talks as announced by radiophone.
7:30 p.m.—Base ball scores; late news flashes.
8 p.m.—Where Do You Keep Your Valuables During the Summer?" H. A. Robinson, New England manager Mosler Safe Company.
8:15 p.m.—Concert program by Ernest Belcher, tenor; Gertrude Goldman and Warren Miller: "Ave Maria," from "Cavalleria Rusticana" (Mascagni), Mr. Belcher; "Les Adleux" (Sarasate), Mr. Deluty; "Moonlight Sonata" (Beethoven, Op. 27, No. 2), Miss Davis; "Kashimiri Bong" (Finden), Mr. Belcher; "The Fire-Fly" (Papini), Mr. Deluty; "Ballade in A Flat Major" (Chopin, Op. 47), Miss Davis; "Eluceva e Stella," from "Tosca" (Puccini), Mr. Belcher; "Liebsfreud" (Kreisler), "Rondo Capriccioso" (Mendelssohn, Op. 14) and "Prelude" (Rachmaninoff, Op. 3, No. 2), Miss Davis.

KDKA—Westinghouse, East Pitts-

KDKA—Westinghouse, East Pitts-burgh (360 Meters)—Eastern Stand-ard Time).

9 to 9:15 a.m.—Music.
11:30 a.m. to noon—Music.
2 p.m.—Popular concert by the Novelty Entertainers.
3:30 p.m.—Base ball scores by in-

nings.

6 p.m.—Theatrical features; base ball scores.

7 p.m.—"Seasonable Suggestions for the Home Garden," Harry R. Eby, county agriculturist, Allegheny county farm bureau, Pittsburgh.

8 p.m.—Nathaniel Robin, planist and composer (pupil of Ernest Block); Samuel Gluck, violinist, concertmeister Carnegie Tech Symphony Orchestra.

1 light-saving Time — Deduct One Hour, one page the core; bed-time stories for children.

7:30 p.m.—Base ball scores; bed-time stories for children.

7:45 p.m.—Lecture and market reports.

8 p.m.—Program of music; base ball scores.

meister Carnegie Tech Symphony
Orchestra.

Program: Piano solos—"Etude, Op.
No. 1," Chopin; "Impromptu, Op. 29,"
Chopin: "Valse, Op. 64—No. 2,"
Chopin: Siberian Sketches, Nathaniel
Robin, composer—(a) "The Etape."
Note—The "etate" was a temporary
prison or stockade wherein were detailed the hordes of exiles—who in
the days of the csar, passed in an
endless stream out of Russia. (b)
"Chant"—Dance. (c) "The Market
Mace." (Played by the composer.)
Violin solos—"Romance" from D
Minor Concerto, Wisniaswski; "A La
Zingara"; "Serenade Espagnole."
Chamade, Krehler: "Hindu Chant,"
Rimsky, Horskov-Kreisler; "Rondino," Kreisler; Beethoven; "Caprice
Vienois," Kreisler: "Estato Symphony

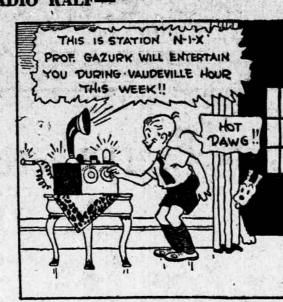
HOMEMADE

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MYW-Westinghouse, Chiengo (200 Meters -- Central Daylight - Saving

a.m.—Opening market quota-Chicago Board of Trade. .m.—Market quotations at one-

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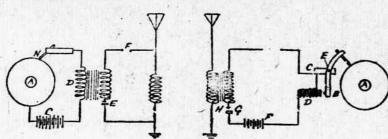






EXPERT ADVICE ON RADIO

No. 47.—Sending Pictures by Wireless.



6:30 p.m.—News; final market and financial reports; base ball reports.
7 p.m.—Vocal selections by Irma Kemner Richards, contraito; William Larkin, baritone. Hawaiian ukulele selections b; J. Landi Pa. Piano selections as reproduced by Steinway Duo-Art reproducing piano.

Program—Piano solos, Duo-Art piano. Contraito solos—"The Rosy Morn" (Ronald), "At Parting" (Rogers), "The Trysting Well" (Tours), "The Hum of Bees" (Molloy). Baritone solos—"Absent" (Tirindelli), "Clang of the Forge" (Rodney), "The Garden of Memory" (Phillips), "When Dull Care," Old English. Hawaiian selections—Guitar and ukulele.

WJZ—Westinghouse, Newark, N. J. (360 Meters—Eastern Daylight-Sav-ing Time—Deduct One Hour).

(twenty-eight pieces), Staten Island Institute of Arts and Sciences. Mr. H. Danisdenski, manager. 9:30 p.m.—Concert by the Morris-town Quartet. Herbert H. Jones, manager.

WBZ — Westinghouse, Springfield, Mass. (360 Meters—Eastern Day-light-saving Time — Deduct One Hour).

WGR—Federal Telephone and Tele-graph Company, Buffalo, N. Y. (Eastern Daylight-Saving Time— Deduct One Hour).

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umber of electrons emitted by a through the filament may be reguvacuum tube filament per second (the rate of emission) depends upon the filament temperature. This of course depends in turn upon the strength of the current passing through the depends upon the rate at which electrons in turn upon the strength of the current passing through the depends upon the rate at which electrons arrive at the plate. We have filament. The higher the tempera ture of water being heated over

The street of the current passing through the temperature of water being heated over a street of the temperature of the street passing through your receiving sets from broadcasting sations have you which go come through your receiving sets from broadcasting sations have you wished you could see the enter-trainers? Perhaps before very long this may be possible and the radio rations the work of the street of the street was then fastered the street through the a living through your receiving sets of the work of some great singer and the work of the work of the street of th

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It has been explained that the The flow of current from the battery

this plate at an increasing rate un- of attracti g electrons in any greattil they are thus attracted as fast as they are emitted. Then, since there are no more electrons available per second, the plate current ceases to increase with an increase of plate voltage which provides the attractive force. It is then necessary to increase the supply of electrons. Suppose that the plate voltage (positive potential on the plate) is held constant and the temperature of the filament is increased. The supply of electrons or the rate of emission increases so that if the plate voltage has increased to such an extractive electrons supplied in the previous case, it will now attract the actract the electrons in increasing numbers. If electrons are emitted at still increasing rates there will be an excess which will be repelled back to the filament. It is, after all; the relation of the effect of the space charge which controls the attraction of electrons to the plate. When the space charge has increased to such an extract the electrons supplied in the previous case, it will now attract the actract the electrons in increasing numbers. If electrons are emitted at still increasing rates there will be an excess which will be repelled back to the filament. It is, after all; the relation of the effect of the space charge will be an excess which will be repelled back to the filament. It is, after all; the relation of the effect of the plate potential to the effect of the space charge will be an excess which will be an excess which will be repelled back to the filament by the cloud of electrons surpour of the effect of the plate potential to the effect of the plate potential to the effect of the space charge and traction of electrons to the plate. When the space charge has increased to such an extent that its effect balances that of the effect of the space charge has increased to such an extent electrons will increase the plate plate of the effect of the space charge will be an excess which til they are thus attracted as fast er numbers. If electrons are emit-

en that they may be attracted to potential on the plate is not capable





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